

Iteration 1

Reddit Robot

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1 Use Cases

This is elaborating on the basic use cases presented in the inception period.

1.1 Authenticate the User

- No Refresh Token
 - Prompt the user to visit the correct URL (includes scopes and program ID)
 - Prompt the user to click “Allow” on the webpage
 - Prompt the user to copy the URL they got redirected to back into the program
 - Parse the URL for the temporary token
 - Use the one-time-use token to get the session and refresh tokens
 - Save the refresh token to disk
 - Restart the session timeout timer
- Has Refresh Token but not Session Token
 - Use the refresh token to get a new session token
 - Restart the session timeout timer
- Has Session Token and Refresh Token
 - If session timeout timer is past 3600 seconds, use *Has Refresh Token but not Session Token*

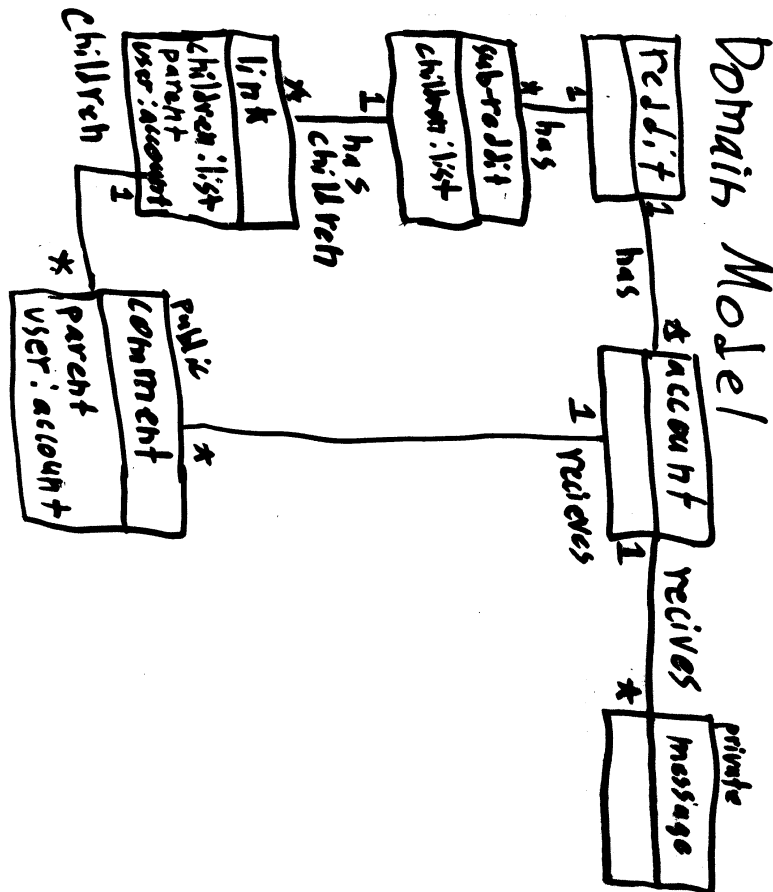
1.2 Read Data

- *Authenticate the User*
- Check that not too many requests have been made in the last time period
- Set the HTTP header
 - Set the useragent string in the header
 - Set the authorization string in the header
- Make request

- Wait for reply to finish
- Get information from reply
 - Get the *X-Ratelimit-Remaining* number from the header (requests available left)
 - Get the *X-Ratelimit-Reset* number from the header (time until get more requests)
- Return the body of the message

2 Domain Diagram

Figure 1: The Reddit Domain Diagram



3 Reading Data

This sequence diagram would be very similar to all the other ones to get data from the website. The difference would be what object we create in the middle, and what method we call to get information. Notice how the session object must already be made to construct a different object.

Figure 2: Sequence Diagram Example for Getting Data

